

Before the United States Patent and Trademark Office

DECLARATION

In the matter of:

Application Number: 10/805,077
 Filing Date: 20 March 2004
 Applicant: David Scott Thompson
 Title: Paging Unit, a System Including Paging Units and the Use of Those
 Art Unit: 2173
 Examiner: Ryan F. Pitaro
 Agent's Docket: 04-167

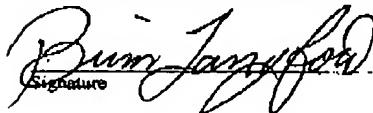
I, Brian Langford, have an Associates of Applied Science in Electronics Engineering Technology degree from Asheville Buncombe Technical Community College and a Bachelors of Applied Science in Electronics Engineering Technology degree from Western Carolina University. I have been in the engineering field for over twelve years and have designed equipment implementing 8, 16, and 32 bit processors, various display technologies, wireless technologies, power supply circuits, battery management circuits, mixed signal circuits, CPLD development, etc. Working for contract engineering firms such as Continuum Technology and Nexus Technologies (North Carolina firms) I often review customer specifications, identify enabling technologies, and provide product feasibility studies, scopes of work, and development costs estimates. In review of Patent Application Publication 2002-0105412 (PAP) by Alessandro Carissimo and considering the question "Does this application provide the details necessary to develop the described product/system?" I offer the following:

The PAP provides a high level overview of the invention including details of desired operation. The high level description provides specifics relating to common industry items such as a hardware device with enabling software, user interface buttons, user interface display, and wireless communications. The PAP is not dissimilar to a high-level customer specification submitted to and experienced engineering firm expected to identify system details, component details, firmware details, communication protocol details, etc., in order to develop a working product.

As an invention, the PAP lacks details of enabling technologies considered unique and proprietary. For example, The PAP often mentions the upload and download of software to the various system components. The ability to download software (firmware, application, system level drivers, etc) is common and used daily throughout consumer, commercial, and industrial markets. In addition, the PAP describes a charger for an infrared battery powered device, but there is no mention of various battery types, charging method, or advantages of the intended approach. I would expect details describing methods that are faster, consumes less power, or less expensive than common industry methods.

The PAP details a high level overview of a paging system, but lacks specifics detailing desired enabling technologies. If I were presented the PAP with a request to develop the product, I would begin by researching industry options for each of the various components. Research would include wireless topology, communication protocols, direct cable interface options, display options (passive, character, VFD, TFT, size/resolution, etc), power consumption, battery type, etc. The compiled research would create a documented product specification detailing the enabling technologies, interface options, system operation, inter/intra communications, etc. This product specification would become the basis for the product's development. The PAP provides a system level overview, but lacks the details of a specific and targeted product specification.

I declare under penalty of perjury that the foregoing is true and correct.


 Signature

8-18-05
 Date

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08/03/2005 WED 10:00 FAX 512 998 6894 D1430 (WIRS)

002/002

Before the United States Patent and Trademark Office

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In the matter of

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Examiner: Ryan P. Pitaro
Agent's Docket: 04-167"

Reviewer Information:

Daniel Orozco-Perez
Software Engineer
Advance Technology
WMSC Freescale Semiconductor
7700 West Farmer Lane
Austin, Tx, 78729
Ph: 512 996 7276

- 10+ years working in the wireless communications industry
- Expertise on hardware/firmware design
- 2 US pending patents on protocol and baseband processors areas
- Currently working in Advance Technology "Wireless Mobile System Group" at Freescale Semiconductor, Austin Texas.

Reviewer conclusions:

I have reviewed the "United States Patent Application Publication 2002-0105412" 3 pages document and in my opinion, the document specifies the apparatus' components, their interaction and its applications. However, the document does not provide enough hardware/software design information to be able to build the "paging system" successfully. A hardware/software design specifications document is required to build such a system successfully.

I declare under penalty of perjury that the foregoing is true and correct.

Signature

Date

Aug-10-05 08:46A Carol Church:111

P.01

Before the United States Patent and Trademark Office

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In the matter of:

Application Number: 10/806,077
Filing Date: 20 March 2004
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Title: Paging Unit, a System Including Paging Units and the Use of Those
Art Unit: 2173
Examiner: Ryan F. Pimro
Agent's Docket: 04-167*

Qualifications Paul C Haas:

- Bachelor of Science in Electronics Engineering Technology from Western Carolina University, Cullowhee, NC. 1999
- Associate of Applied Science in Electronics Engineering Technology from Asheville Buncombe Technical Community College, Asheville, NC. 1992
- Worked as a Design Engineer for the last 6 years designing embedded electronic hardware systems for the retail industry.

I, Paul C Haas, have reviewed Carissimo's United States Patent Application, Publication 2002-0103412.

In my opinion the patent application is lacking sufficient detail to be able to build a working system. Only a vague concept of a design has been presented. No discussion of electronic circuits, parts or architecture is presented in the patent application. What type of CPU is used? What type of memory? What type of battery? None of these questions are answered in the application. If I would design this system I would have to design through experimentation. Choosing communication protocols between the devices, what type of CPU, communication bus for the display, type of display (backlight or no backlight), and the flat goes on. I would estimate it would take about three to four months of development time for working prototype system.

I declare under penalty of perjury that the foregoing is true and correct.


Signature8/10/2005
Date

FROM : SCRAPPIN' TWINS

FAX NO. : 714-692-1558

Aug. 12 2005 12:14PM P1/1

Before the United States Patent and Trademark Office

DECLARATION

In the matter of:

Application Number: 10/865,077
Filing Date: 20 March 2004
Applicant: David Scott Thompson
Title: Paging Unit, a System Including Paging Units and the Use of Those
An Unit: 2173
Examiner: Ryan F. Pitaro
Agent's Docket: 04-167"

Daniel James Mtnar has a BS in engineering from the University of California, Irvine conferred in June 1989. I have 16 years experience in embedded systems design and development working on professional digital audio workstations, land mobile radio systems, and large scale system integration. Co-inventor of United States Patent 5,798,818: Configurable cinema sound system.

I have reviewed United States Patent Application Publication US 2002/0105412 A1

The issue of the above Patent Application is that it seems to describe an idea for a system, and how those components are connected together. It does not describe or lay claim to what those components are comprised of, nor what protocol or communications are relayed between components. For example, paragraph 0016 states "The Receiver 30 is the device the patron carries with him and therefore it is preferred that it be compact. In a preferred embodiment, receiver 30 has the following primary modes: paging, advertising and/or entertainment." It goes on to explain the receiver has a display, keypad or touch panel display. The Carlsalmo application does not state what the receiver is comprised of. Is it a display and keypad, or is it a touch panel display? That is the furthest that the receiver is described as. There is no mention of processor or memory. The idea that the receiver has the capability for data to be "uploaded or downloaded wirelessly to receiver 30 from charger 40, transmitter 20 or a wireless service provider 70" is nice, but, once again, lacks specifics. What radio frequency interface is necessary for this to function? I would have to assume that means the receiver would need at least two wireless transceivers - one for the local paging function and/or communication to the other components, and another for the wireless service provider function. However, no further specifics can be found in this application. This fact alone would cause great experimentation.

Likewise, paragraph 0017 states "In a preferred embodiment, Transmitter 20 remains stationary." It then goes on to describe the interfaces for the software and data to be exchanged with the transmitter, but there are no specifics of what the transmitter is other than it "remains stationary." Once again, there is nothing that explains what the transmitter is comprised of. This would make it quite difficult to reproduce, and would also require undue experimentation.

The claims do not shed any additional information on what the components are made up of. They claim many ideas of how the components interact and interface with each other, but at a high enough level to not be enabling. It is my opinion that the Carlsalmo application does not discuss the component internals in enough detail, and the interfaces between the components are not addressed at a sufficient level of detail. This creates a device that would require much experimentation to reproduce at a cost of great time and money.

I declare under penalty of perjury that the foregoing is true and correct.


Signature

2005-08-11
Date

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AUG 25 2005

Before the United States Patent and Trademark Office

DECLARATION

In the matter of:

Application Number: 10/805,077
Filing Date: 20 March 2004
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Title: Paging Unit, a System Including Paging Units and the Use of Those
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Specifics about the writer's qualifications as someone skilled in the art (e.g., degrees, training, awards, experience).

My name is Lawrence Benjamin Palmer and I am a computer systems consultant and software engineer and have been since 1996. Since 2001 I've been employed as a software engineer/embedded software engineer at Trident Micro Systems in Arden, North Carolina.

That the writer reviewed Carissimo (United States Patent Application Publication 2002-0105412).

I read the Carissimo document entitled: United States Patent Application Publication Carissimo. Pub No.: US 2002/0105412 A1 Pub Date: Aug 8, 2002.

The writer's opinion about whether Carissimo is enabling. Any specific defects, "holes," areas where undue experimentation would be required should be discussed.

Carissimo does not provide a parts list. Therefore it's unclear what part or parts Carissimo would use for the following:

1) Over the Air Communications

Without knowing how Carissimo intends to facilitate over the air signaling, it would be incumbent on the implementer to experiment with over the air signaling methods, RF bands and protocols. Many parts are not suited to use in RF environments and therefore the implementer would need to create the entire circuit from scratch for use in Carissimo. There is no specification given.

2) Section 0017 - 0022

Without any defined circuit it is impossible to claim that Carissimo can receive updates via diskette, modem or wireless network. Carissimo does not provide specification for this section.

It is my opinion that Carissimo is not a fully realized product as outlined in this document and lacks the ability to be realized based on the information provided.

I declare under penalty of perjury that the foregoing is true and correct.

Signature

Date

8/12/05

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Examiner: Ryan F. Pitaro
Agent's Docket: 04-167"

Name of Reviewer: Don Weerasiri

Qualifications and experience in the field of Electronic and Telecommunication Engineering:
Master of Engineering (M.E.) in Electrical and Electronic Engineering, University of Canterbury,
Christchurch, New Zealand

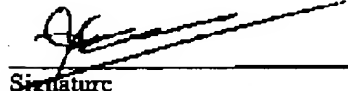
Bachelor of Science in Engineering (Hons.) in Electronic & Telecommunication Engineering, University
of Moratuwa, Sri Lanka

Nine years experience in radio communications, networking, embedded software and hardware
development in the areas of Design, Requirements Analysis, Coding, Testing, Maintenance, Project
Management, People Management, Contract Management and Process Improvement.

I have reviewed the Patent Application Publication 2002-010541 submitted by Alessandro Carissimo.

The patent application provides theoretical information about many means of downloading advertising and
entertainment information into a paging device. However, it does not provide any implementation details
especially on how to interact with a multitude of such devices over the air. Therefore, I strongly believe
that research and experimentation is needed to develop a product based on the outline given.

I declare under penalty of perjury that the foregoing is true and correct.



Signature

8/15/2005
Date

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PURCHASING

PAGE 01

Before the United States Patent and Trademark Office

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In the matter of:

Application Number:	10/805,077
Filing Date:	20 March 2004
Applicant:	David Scott Thompson
Title:	Paging Unit, a System Including Paging Units and the Use of These
Art Unit:	2173
Examiner:	Ryan F. Pittaro
Agent's Docket:	04-1671

By:

Kenny G. O'Dell
BS Computer Science, University of South Carolina
Principal Software Engineer (embedded design)
Currently employed by Mettler-Toledo Inc.

Experience in design of the following products

- Touch Screens
- LCD
- 2-way UHF radio
- Industrial/scale scales

Design experience: approx. 10 years.

I have reviewed the Carissimo (United States Patent Application Publication 2002-0103412) document.

My initial comment, and one that returned throughout my review, is that this application is extremely vague and lacking in content necessary for use. It would require undue experimentation to implement. Following are just a few questions that come to mind:

1. How long should the batteries last? 10 minutes? 10 days? What type of battery technology?
2. What display is used? Is it a color display? What is the resolution? What is the color depth? What is the refresh rate? Is it backlit? Will it perform both outside (in direct sunlight) as well as inside?
3. What are multi-media file? What file types? What formats does it support?
4. Which short-range wireless format is used? What distance does it operate at? Must it work in a harsh environment (explosive)? Is it waterproof?
5. What emission/atmosphere requirements does the system meet?
6. What long-range wireless format is used? Digital or analog?
7. What are the dimensions and weight of the Receiver? Does it vibrate? Does it make sounds? Obviously, the Receiver must be light and robust, but there are no details.

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9/81/486

PURCHASING

PAGE 02

8. What type of keypad does the Receiver have? What technology? Will it work in wet environments? Can it be dropped and if so how far and how many times?
9. What type of technology is the touch-screen on the Receiver unit? How long will the touch-screen last before replacement is necessary?
10. What are the power requirements for each item listed in Figure 1? Will it work in Europe or elsewhere? What provisions will be made for the various power supplies throughout the world?
11. What is the operational range of the system? How large an area will the Receivers work?
12. How are the units accounted for while in use? What happens when they are out of range? How is theft prevented (or accidental loss)?
13. Which lines are provided in the contacts on the charging unit? For what purpose?

Beyond the high-level questions listed above, I found no bill of materials or a parts list of any kind. There are no details such as those provided in the document. No schematic, no block diagrams, no mention of computer operating systems the software will work with. In short, this is a vague idea lacking in content and it would require a great deal of research and experimentation to come up with a working design.

I declare under penalty of perjury that the foregoing is true and correct.

Kenny D. O'Dell
Signature

8/15/2005
Date

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Title: Paging Unit, a System Including Paging Units and the Use of Those
Art Unit: 2173
Examiner: Ryan F. Pitaro
Agent's Docket: 04-167

Reviewer: Robert DeBrecht

Robert DeBrecht received both a Bachelors of Science degree in Electrical Engineering / Engineering Physics and a Master of Science degree in Electrical Engineering / Engineering Science from the University of California at Berkeley. He was awarded Tau Beta Pi and Phi Beta Kappa awards upon graduation. He has worked in an Electrical Engineering capacity for over 36 years at companies such as RCA David Sarnoff Research Laboratories, General Microwave and Narda/Loral, L3 corporations. In this capacity, he has been part of the design, construction and testing of electrical analog and digital circuits and systems in the RF and microwave frequency ranges. He is listed on three patents and authored or co-authored several technical papers.

Mr. DeBrecht has reviewed patent application US2002/0105412 A1, dated Aug. 8, 2002 in its entirety and finds the following:

The application presents worthy ideas pertaining to a perceived need. However' unfortunately little if any, suggestion of detail for the implementation has been offered. Just one way this may be inferred is in the very brevity of the application. In short, significant thought, planning, research and development would be necessary to embody the ideas into a viable product. Some examples of questions that would have to be answered before envisioning a product are:

The Receiver -

It is stated that this has various modes of operation, paging advertisement, and entertainment. Does it change modes or is it fixed? How does it change modes if it does? What is the stimulus? It is able to upload and download software and data. How? With what circuits internal to the unit? It is a wireless device. What frequencies or frequency bands does it use? Are those frequencies unlicensed or licensed? How are they generated or received? What is the modulation? What size and form of antenna might be needed? The unit has a display. What is the nature of the display? Does one exist or does it have to be developed? How much power does the display take? Apparently a battery is needed. What is its capacity and how long should its charge last? Information is uploaded and downloaded. How and when does this happen? Does the unit spontaneously upload information? Does it initiate the communications or does the Charger or Transmitter? What is the form of the upload and download messages?

The transmitter -

Many of the same questions that need to be answered about the Receiver also apply to the Transmitter. In addition, it is stated that preferably this is a stationary unit used by a hostess. How does the hostess use it? Can information be entered? How would it be entered? Is there only an on or off switch or something more? Is there a switch on it at all? Information may be entered into the Transmitter by means of diskette, a modem, or a wireless network. Presumably, in the case of a diskette, that there is a diskette drive in the Transmitter. Is this a standard floppy disk drive or some other. Is special programming needed? What is the processor, memory and interface circuitry needed to read from the diskette? Can this be fit into a transmitter of reasonable size? Similar questions may be posed about the modem. In addition, to what would the modem be connected and how would the communication be initiated and under what circumstances? A whole host of questions would need to be answered about the wireless network to even begin to design a piece of hardware to accomplish it.

The Charger -

Similarly, there are many questions to ask and issues to be resolved before the Charger design becomes clear. Apparently many Receivers may be charged and programmed at once. How is this possible? For charging, it is stated that several contacts are needed. How many are needed? How do they work? How are multiple units charged at once? Is there any unit-to-unit interaction? If so, then how should it be avoided? Then how is it avoided? The Charger can be programmed. How is this done? What are the electrical connections? What is the speed of the data transfer? How much data is transferred? When should the data be transferred? How is it checked for accuracy? What types of electrical components are needed to provide the charging and programming? Are they "off-the-shelf" or do they need to be developed?

Software Programmer -

Software is used to download software to the Charger, Transmitter or Receiver. To which device is it downloaded? When would one want to download directly to the Receiver? What is the advantage to downloading to the Transmitter or Charger? In any of the cases, what programming language is best suited to the Programmer? What are the message structures best suited to transmitting information from the Programmer to the Charger, Transmitter, or Receiver? Only the manufacturer uses the programmer. Does that mean no one else can use it? Why or why not? If so, what is the means of protection against anyone else from using it? How is the information transmitted then to the Charger, Transmitter or Receiver? Apparently this is by means of diskette, modem, or wireless means. But how and when is this done? And what is the integrity of the transfer?

The purpose of going into such length of asking questions is to demonstrate that the patent application referred to is so broad and general and so without specifics that there is virtually no information useful that would lend itself to the embodiment of these ideas. Basic questions of design need to be answered before hardware can be envisioned. Unfortunately, the application is lacking of answers and details of physical embodiment. It is of ideas only.

I declare under penalty of perjury that the foregoing is true and correct.


Robert DeBrecht

8/16/05
Date

AUG 25 2005

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Art Unit: 2173
Examiner: Ryan F. Pitaro
Agent's Docket: 04-167"

36 years compensated experience in Electronics. Includes but not limited to:
Terrestrial Audio / Video - Several AM radio stations and a TV Station. Both Studio and Transmitter work.
Terrestrial Microwave, both Analog and Digital up to 40GHz
Satellite Audio / Video - Bell Corp., CATV, Home Satellite (Contract Videocipher)
Aviation and Marine Instrumentation and Radar (various)
Factory Automation and Instrumentation (non ethernet / IP)
Energy Industry Automation and Instrumentation (non ethernet / IP) both Wired and Wireless
Contract Engineer to develop Wireless Irrigation system for Toro
Contract Engineer on team to develop Remote Surveillance applications for Tocom (Included equipment and systems design)
Guest Writer of articles in peer reviewed magazines and technical publications
Technical consultant to two authors who had books published on land based wireless communications systems
Lead design engineer for 6 Turn-Key Voice/Data communication systems deployed to, and installed in, un(der)developed countries to support energy exploration and extraction.
IP Based Communications - CCNA

After reviewing Patent Application Publication "Carlissimo", Publication US2002/0105412 A1, Dated August 8, 2002, I have the following comments:

- Unable to locate discussion, by the author, regarding use of licensed or unlicensed spectrum. This is an important topic. Affects emission types, Data transfer rates and Interference Mitigation strategies. The system being labeled as a "Paging System" describes a "Fire and Forget" transmission method that will require Forward Error Correcting, Convolutional coding to improve the "Odds" of reception since no guarantee exists that the message was ever received by the intended recipient intact. These strategies drastically impact data throughput and the amount of time that the transmitter must stay on the air to deliver Datagrams.
- (0004) Dynamic Memory Allocation as a result of user interaction. Most CPU based systems using a combination of Volatile and Non-Volatile memory perform this function automatically just by the "Nature of Design". Does he want to patent lines of code?
- (0005) According to my friend on the Gaming Commission in the state of Nevada, this is illegal in most states.


Is the gaming device separate from the SCR (Selective Call Receiver)? If so, I did not see it in the system overview. Assumption: The gaming device must be autonomous with the redemption of prizes available ONLY after the unit has been plugged back onto its base. It also, by description or lack of,

describes a system that intentionally prevents multiple participants in a single game i.e., Poker, Chess, Trivia, and "Wheel-of-Fortune" Style word puzzle games.

Undesirable, since, as described in (0002) "Places where a patron must wait for seating", and specifically described in (0012) these places are typically chains with locations in many states. These establishments are already linked by Satellite or Internet. Gaming between patrons at multiple geographic locations would be highly sought after.

In my opinion, this product as described is conceptual at best. Important technical details have not been discussed in this publication and, I am sure, have not been considered by the author. There is still a great deal of research and engineering time that needs to be invested to bring this item to an actual product that can be produced AND in a condition useable by the market it is intending to address.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.


Signature

15 August 2005
Date

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AUG 25 2005

FROM : Personal Communications

FAX NO. : 7146209935

Aug. 17 2005 01:18PM P1

Post-It* Fax Note	7871	Date	8/17/05	# of Pages	1
To	DAVID THOMPSON	From	GREGORY BOHNING		
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Phone #		Phone #			
Fax #	328 687-7676	Fax #	315 572-0121		

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 Agent's Docket: 04-167"

I (Gregory Bohning) am currently employed as a Senior Software Engineer for Trident Micro Systems (Arden, NC) for the past ten years. Previous employment with FleetCall/Vextel as a Senior Systems Engineer for eight years. I am Certified NARTE Engineer and hold a General Class FCC license. I graduated from the Navy School of Electronics in San Diego, California.

I (Gregory Bohning) have reviewed Patent Application Publication 2002-0105412 and in my opinion this application is not enabling for the following reasons:

The Carissimo application is very non-specific in its description of a multi-media paging device for restaurants, retail stores, hospital waiting, airports and etc. see [0008] [0016]. There is no detailed technical description of the electronic paging device and the limited description provided in this application could also apply to Cell Phones and Wireless Computer Laptops that are currently being used in a similar manner. In use today, establishments such as Starbucks Coffee House and Hampton Inn, wireless computer laptops can login to the establishment's wireless Internet connection. At login there is usually an advertisement regarding services provided by the establishment. Secondly, cellphone numbers of restaurant customers are being used to voice page a customer that a table is available. It would be possible (or is currently in place) for a restaurant to setup an automated computer system to text message a customer that a table is waiting and in addition provide an advertisement in the message. The latter could be identical under "advertising and entertainment" in the Carissimo patent application. In addition, laptop computers and cellphones have a display and user interface and these user interfaces are declared in the Carissimo application as unique. see [0008] [0016] and "What is claimed is:" under claims 4, 5 & 6.

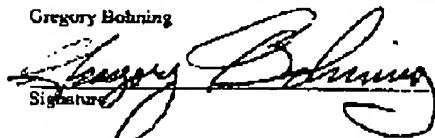
In the Carissimo application regarding the upload and download of software or data to a radio device (present invention) via a transmitter or telecommunication line, is an application being used in cellular phones, public safety two-way radio and wireless computers, see [0009] [0010] [0027].

In the Carissimo application regarding a single charger to support many receivers at one time. This battery charging method is already in use for pagers in the restaurant industry and in addition to, public safety two-way radio systems, see [0011] [0023].

In conclusion, the present invention described in Carissimo Patent Application Publication 2002-0105412 is too broad in its description and can apply to other existing inventions. In addition, there are no specific technical details on how to build Carissimo's invention, not enabling.

I declare under penalty of perjury that the foregoing is true and correct.

Gregory Bohning



Signature

August 17, 2005
Date

Aug-10-05 08:47A Carol Church111

P.02

Before the United States Patent and Trademark Office

DECLARATION

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Filing Date: 20 March 2004
Applicant: David Scott Thompson
Title: Paging Unit, a System Including Paging Units and the Use of Flow
Art Unit: 2173
Examiner: Ryan F. Pizaro
Agent's Docket: 04-167"

My name is Kevin Mitchell. I am a software engineer. I have worked professionally in the field for 16 years. My experience is mostly with smaller electronic systems, very much like what is vaguely described in PAP 2002-0105412. Our team here at uniComp Incorporated designs, prototypes, and manufactures small electronic devices.

I completely read and understand the PAP in question. It is "*Carissino (United States Patent Application Publication 2002-0105412)*"

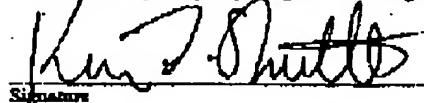
In order to create the system described in the PAP we (my team here at uniComp) would ignore what the contents of the PAP said and start over. It provides no insight into any technical details that we would need to create this system. The patent divulges no specific information regarding what type of microprocessor would be used, what kind of embedded operating system the device would run, nor what specific applications will run on the device.

The caption drawing is useless at best, and at worst, confusing for someone technical. Example: why is there a smokestack next to a "wireless service provider"?

If I were to undertake this project and create this system, many man hours of experimentation would have to take place. This is because no specific details were provided. It is basically wide open as to what we would use to engineer this system, therefore, everything we did, from the first minute of engineering to the last would be all experimentation.

In order to create the system described in the PAP, it would take my current place of employment, with all the tools and talent available about 3 months to a single prototype system, then another 6 months to a manufacturable product.


I declare under penalty of perjury that the foregoing is true and correct.


Signature

8/10/05
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Paul H. Demchick

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